Vienna Instruments
Solo Download Instruments
Heckelphone
Full Library

Contents

Introduction

Welcome to the Vienna Symphonic Library, and thank you for purchasing one of our Solo Download Instruments! This document contains the mapping information for the "Full" version of the Vienna Instruments Heckelphone. You will find in it a comprehensive survey of the articulations/Patches content, a listing of abbreviations, and the mapping list proper which gives details for every Patch, Matrix, and Preset.

"Full" Library

As opposed to the "Standard" versions of our Solo Download Instruments, the "Full" versions are identical with the corresponding instruments of a DVD Collection, i.e., they contain exactly the same samples, Patches, Matrices and Presets as the latter without any restrictions.

Installing a Download Instrument's Full version copies that instrument's sample content to a separate folder on your hard disk, so that it is not necessary to keep its Standard version installed – you may either delete it from your hard disk or at least remove it from the Directory Manager's list of activated instruments. In the Vienna Instruments Browser, the path of the Full version will be the same as that of the corresponding DVD Instrument, so that you can still see both versions as separate entries if you keep the Standard version installed.

Data paths and Patch name conventions

Since the Full versions of Download Instruments conform to the corresponding DVD Instruments, the data paths in your Vienna Instruments browser will be different than those of Standard Download or Special Edition Instruments. For instance, the path of the Standard Download Library of Flute 1 is "02D Flute-1", and all Patches can be found in this folder regardless of the articulation group they belong to. The Patch number is also marked with a "D" so that you immediately know it is a Download Instrument. In the Vienna Special Edition, Flute 1 is located in the folder "11 Flutes" together with the other flutes. Here, the Patch number is marked with an "S". The Full Download of Flute 1 is located in the subfolder "32 Flute" of the section "Woodwind Patches", which again contains subfolders grouping the Patches according to type, e.g., "01 SHORT + LONG NOTES", "02 DYNAMICS", etc. Patch names of the Full Download Library may differ from the corresponding ones of the Standard Download Library.

While Full Download Instruments contain all articulations of the corresponding DVD Instruments, their Patches are not divided into Standard and Extended content. The list of articulations further down which gives a summary of the Library's contents.

Special Patch configurations which sometimes are part of a Standard Download Instrument may be found in a reserved folder called "98 RESOURCES" in the Full Instrument. E.g., Flute 1 Standard contains the Patch "22D FL1 legato-sus"; in Flute 1 Full, this Patch is called "01 FL1_perf_leg_sustain" and is located in the Resources' subfolder "03 Perf Speed variation". (Apart from that, it also contains more samples.) Other articulations that can be found in the Resources folder are isolated dynamics repetitions in the subfolder "01 Perf Rep dyn" – e.g., the five repetitions of a legato crescendo, divided into separate Patches – and extracted velocity layers of sustained notes in the subfolder "02 Long Notes – Single Layer".

Patch information

The Patch information includes articulation type, playing range, number of samples used, RAM requirements, the number of velocity layers and alternations, AB switching possibilities, etc., as well as Patch specific information if necessary.

Where the type of articulation requires a special mapping (e.g., natural harmonics patches), the mapping layout will be shown in a detailed graphic.

Major and minor runs are always mapped to the keys of their scale, as are **arpeggios** to the keys of the broken chord played. **Grace notes** and **mordents** are mapped to their target note, i.e., the note the articulation ends with. Due to their nature, all **upward and downward articulations** (e.g., fixed glissandos and octave runs) have different mapping ranges – the upward movements ending the involved interval below the Patch's upper mapping range, while downward movements end the interval above its lower mapping range. (Please note that not all of the articulations mentioned above may be contained in your Collection.)

The Patch information also lists a Patch's velocity layers in detail. Velocity layer switches generally are the same for patches with the same number of layers but may occasionally be adapted to the instrument's requirements:

Layers	Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6
2	1–88	89–127				
3	1–55	56–88	89–127			
4	1–55	56–88	89–108	109-127		
5	1–24	25–55	56–88	89–108	109–127	
6	1–24	25–55	56–88	89–108	109–118	119–127

Interval performances

Interval performances are one of the outstanding features of our Vienna Instruments. They allow you to play authentic legato without any programming tricks. In our Silent Stage, all intervals from minor second to the octave were recorded for every instrument – up and down, of course; that makes 24 interval samples per note for one velocity alone! When you load an interval performance Patch and play a line on your keyboard, the software automatically joins the right samples with their interval transitions again, and you hear a perfect legato. By the way, this technique is not only used for legato but also for other articulations like the strings' portamento, marcato, or détaché and spiccato articulations.

Interval performances also contain at least two legato repetitions for every note which alternate automatically whenever you strike a key more than once. There also are preconfigured thresholds for legato and repetition notes: The legato threshold – i.e., the maximum break between notes where legato is played – is 50 ms. Otherwise, a sustained starting note will sound so that you can easily start a new phrase without leaving the legato Patch. For note repetitions, the threshold is 200 ms: a break up to that duration will yield a legato repetition; if the break is longer, a new starting note. But of course, it's mingling legato with other articulations which makes a piece really come alive.

Due to their nature, all interval performances are monophonic; otherwise, the software would have to be able to decide which source note belongs to which target note. To circumvent this, you can open two VI instances of the same instrument on separate MIDI tracks without any additional strain on your RAM.

Note: the Vienna Instruments PRO player software also allows you to play polyphonic Interval performances.

Another variety of interval performance you will come across is the "perf-leg_sus" Patch. These Patches also contain normal legatos, only the target note of each interval is crossfaded into a looped sustain. They can be used for slower pieces with long notes; however, you should use them with circumspection, since plain legatos sound more lively because they not only render the interval transitions as they were played, but also have different target samples for every interval instead of the same sustained note: When you play, e.g., c–e and then c#–e with normal legato, you will get two different "e" tones; with sus-legato you won't.

Matrix information

Each Matrix listing contains information regarding the Patches used for the Matrix, the number of horizontal and vertical dimensions, and switching properties. A mapping table shows the Cell positions for each of the Matrix' Patches.

A/B switching normally is set to A0 for upward/crescendo, and B0 for downward/diminuendo. However, some bass instruments go below that range so that the A/B keys have to be adapted accordingly. For example, the A/B switches for double bass are A0 and A#0 because the instrument's lower range extends to B0.

In order to facilitate working with **MIDI controller switches** like the Modulation wheel, the switching positions are not distributed equally across the controller range if they control more than two Matrix rows or columns; generally, the switching range will be narrower at the extreme positions because they are easy to set, and wider in the middle where it is harder to find the desired setting.

Speed controller switches naturally are adjusted to the Patches involved, and have been tested carefully as to their playability. However, if you find that they do not fit your playing, or want to try out other settings, you can change this as well as any other controller's settings at the **Control edit** page, and save the result in your Custom Matrix folder.

Preset information

The Preset information lists the Matrices used in the Preset as well as its keyswitches. All other information can be gathered from the Matrix and Patch listings, so there's not really much to say here. Please note that the Matrices of a Preset can also be switched with MIDI Program Changes (VI: 101–112; VI PRO: 1–127) instead of keyboard notes, and if you like to keep your keyboard free for playing instead of switching, you can disable Preset keyswitching and only use MIDI Program Changes. Vienna Instruments PRO also allows you to define a MIDI Control for Preset keyswitching.

Abbreviations

Here's a list of abbreviations in Patch names, which will help you to determine a Patch's content even without the help of the Vienna Instruments browser. Please note that not all of the abbreviations may occur in the manual on hand.

Abbreviation	Meaning	Abbreviation	Meaning
150, 160, …	150, 160, … BPM (beats per minute)	leg	legato
1s, 2s, …	1 sec., 2.sec. … duration	lo	long
all	combination of all Patches of a category	me	medium
		nA	normal attack
cre	crescendo	noVib	without vibrato
cre5, cre9	crescendo, 5/9 repetitions	perf-rep	repetition performance
dim	diminuendo	por	portato
dim5, dim9	diminuendo, 5/9 repetitions	RS	release sample
dyn	dynamics (crescendo and diminuendo)	sA	soft attack
		sl	slow
dyn5, dyn9	dynamics, 5/9 repetitions	sta, stac	staccato
fa	fast	str	strong
fast-rep	fast repetitions	sus	sustained
flatter	flutter tonguing	Vib	with (medium) vibrato
hA	hard attack	XF	cell crossfade Matrix

Articulations

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01 SHORT + LONG NOTES	Staccato Portato short Portato medium with vibrato Sustained with and without vibrato
02 DYNAMICS	Medium dynamics with vibrato, 1.5/2/3/5 sec. Strong dynamics without vibrato, 1.5/2/3/4/6 sec. Crescendo-diminuendo with vibrato, 2/3/5/8 sec. Fortepiano, sforzato, sforzatissimo with vibrato
03 FLATTER	Flutter tonguing
10 PERF INTERVAL	Legato Marcato
11 PERF INTERVAL FAST	Legato Marcato
12 PERF TRILL	Trills, legato, minor 2nd to major 3rd
13 PERF REPETITION	Legato Portato Staccato Normal and dynamics

The orchestra

There are several ways of setting up an orchestra, depending on the era of the piece played, the type of the piece and the instruments it requires, and even on the preference of the conductor. The figure below shows one of the more common setups, which can be taken as a guideline for mixing a composition, properly positioning the instruments in the stereo field and adding reverb according to the size of the concert hall you want your piece to be played in.
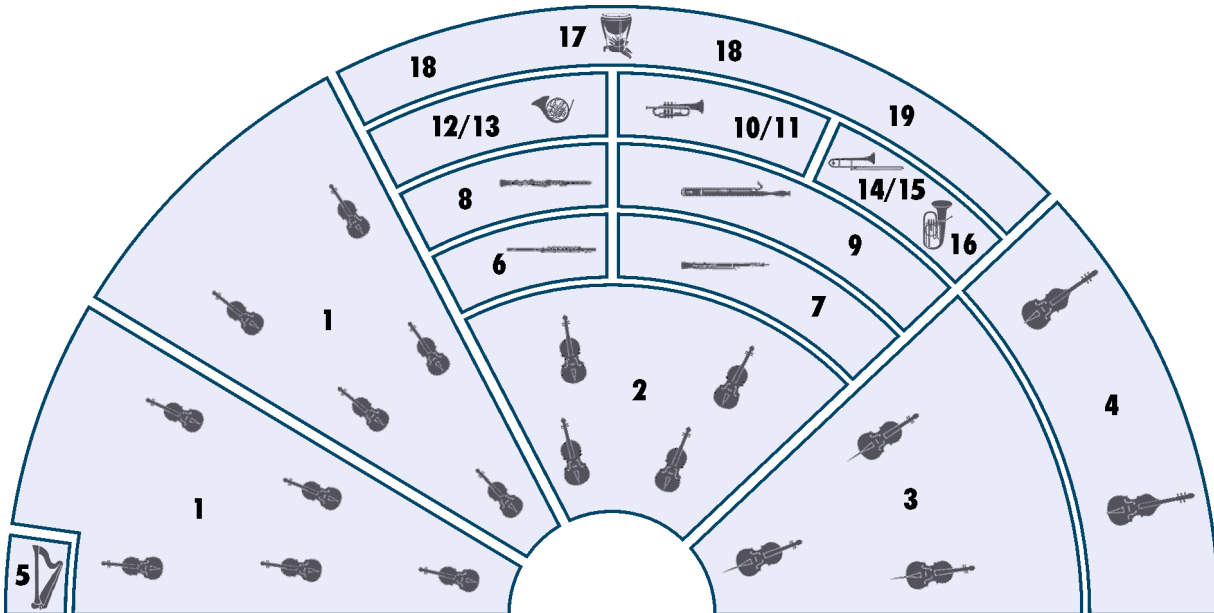
1	1st and 2nd violin	
2	Viola	
3	Cello	
4	Double bass	
5	Harp	
6	Concert flute, piccolo	
7	Oboe, English horn	
8	Clarinet, bass clarinet	

9	Bassoon, contrabassoon
10/11	Trumpet
12/13	Horn
14/15	Trombone
16	Tuba
17	Timpani
18	Drums, cymbals
19	other percussion instruments

Pitch

For designating pitch, the Vienna Symphonic Library uses International Pitch Notation (IPN), which was agreed upon internationally under the auspices of the Acoustical Society of America. In this system the international standard of A=440 Hz is called A4 and middle C is C4. All pitches are written as capital letters, their respective octave being indicated by a number next to it. The lowest C on the piano is C1 (the A below that is A0), etc.

You can tune your Vienna Instruments to other players, or adjust it to tunings of earlier musical periods by setting the Perform page's Master Tune option within a range of 420 to 460 Hz.

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Patches

01 SHORT + LONG NOTES	Range: G#2–F5	

01 HPH_staccato
Samples: 198 RAM: 12 MB

Staccato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
2 Alternations

02 HPH_portato_short
Samples: 198 RAM: 12 MB

Portato, short
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
2 Alternations

03 HPH_portato_medium
Samples: 198 RAM: 12 MB

Portato, medium, with vibrato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
2 Alternations

11 HPH_sus_Vib
Samples: 198 RAM: 12 MB

Sustained, with vibrato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples

12 HPH_sus_noVib
Samples: 132 RAM: 8 MB

Sustained, without vibrato
2 velocity layers: 0–88 p; 89–127 f
Release samples

02 DYNAMICS	Range: G#2–F5	

01 HPH_dyn-me_Vib_1'5s
Samples: 68 RAM: 4 MB

Medium crescendo and diminuendo with vibrato, 1.5 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

02 HPH_dyn-me_Vib_2s
Samples: 68 RAM: 4 MB

Medium crescendo and diminuendo with vibrato, 2 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

03 HPH_dyn-me_Vib_3s	**Samples: 68**	**RAM: 4 MB**

Medium crescendo and diminuendo with vibrato, 3 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

04 HPH_dyn-me_Vib_5s	**Samples: 68**	**RAM: 4 MB**

Medium crescendo and diminuendo with vibrato, 5 sec.
2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf
AB switch: crescendo/diminuendo

11 HPH_dyn-str_noVib_1'5s	**Samples: 34**	**RAM: 2 MB**

Strong crescendo and diminuendo without vibrato, 1.5 sec.
1 velocity layer
AB switch: crescendo/diminuendo

12 HPH_dyn-str_noVib_2s	**Samples: 34**	**RAM: 2 MB**

Strong crescendo and diminuendo without vibrato, 2 sec.
1 velocity layer
AB switch: crescendo/diminuendo

13 HPH_dyn-str_noVib_3s	**Samples: 34**	**RAM: 2 MB**

Strong crescendo and diminuendo without vibrato, 3 sec.
1 velocity layer
AB switch: crescendo/diminuendo

14 HPH_dyn-str_noVib_4s	**Samples: 34**	**RAM: 2 MB**

Strong crescendo and diminuendo without vibrato, 4 sec.
1 velocity layer
AB switch: crescendo/diminuendo

15 HPH_dyn-str_noVib_6s	**Samples: 34**	**RAM: 2 MB**

Strong crescendo and diminuendo without vibrato, 6 sec.
1 velocity layer
AB switch: crescendo/diminuendo

21 HPH_pfp_Vib_2s	**Samples: 34**	**RAM: 2 MB**

Crescendo-diminuendo with vibrato, 2 sec.
2 velocity layers: 0–88 p; 89–127 f

22 HPH_pfp_Vib_3s	**Samples: 34**	**RAM: 2 MB**

Crescendo-diminuendo with vibrato, 3 sec.
2 velocity layers: 0–88 p; 89–127 f

23 HPH_pfp_Vib_5s	**Samples: 34**	**RAM: 2 MB**

Crescendo-diminuendo with vibrato, 5 sec.
2 velocity layers: 0–88 p; 89–127 f

24 HPH_pfp_Vib_8s	**Samples: 17**	**RAM: 1 MB**

Crescendo-diminuendo with vibrato, 8 sec.
1 velocity layer

31 HPH_fp_Vib

Fortepiano, with vibrato
1 velocity layer

Samples: 33   **RAM: 2 MB**

32 HPH_sfz_Vib

Sforzato, with vibrato
1 velocity layer

Samples: 33   **RAM: 2 MB**

33 HPH_sffz_Vib

Sforzatissimo, with vibrato
1 velocity layer

Samples: 33   **RAM: 2 MB**

03 FLATTER   Range: G#2–F5

01 HPH_flatter

Flutter tonguing, forte
1 velocity layer
Release samples

Samples: 66   **RAM: 4 MB**

10 PERF INTERVAL   Range: G#2–F5

01 HPH_perf-legato

Legato
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

Samples: 818   **RAM: 51 MB**

02 HPH_perf-marcato

Marcato
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

Samples: 818   **RAM: 51 MB**

11 PERF INTERVAL FAST   Range: G#2–F5

01 HPH_perf-legato_fa   Samples: 882   RAM: 55 MB

Legato, fast
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

02 HPH_perf-marcato_fa   Samples: 882   RAM: 55 MB

Marcato, fast
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

12 PERF TRILL   Range: G#2–F5

01 HPH_perf-trill   Samples: 2114   RAM: 132 MB

Performance trills, legato, minor 2nd to major 3rd
Monophonic
2 velocity layers: 0–88 p; 89–127 f
Release samples

13 PERF REPETITION   Range: G#2–F5

01 HPH_perf-rep_leg   Samples: 170   RAM: 10 MB

Repetition performances: Legato
2 velocity layers: 0–88 p; 89–127 f

02 HPH_perf-rep_por   Samples: 288   RAM: 18 MB

Repetition performances: Portato
2 velocity layers: 0–88 p; 89–127 f

03 HPH_perf-rep_sta   Samples: 288   RAM: 18 MB

Repetition performances: Staccato
2 velocity layers: 0–88 p; 89–127 f

11 HPH_perf-rep_dyn5_leg   Samples: 170   RAM: 10 MB

Repetition performances: Legato dynamics, 5 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

12 HPH_perf-rep_dyn5_por   Samples: 160   RAM: 10 MB

Repetition performances: Portato dynamics, 5 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

13 HPH_perf-rep_dyn9_sta · **Samples: 288** · **RAM: 18 MB**

Repetition performances: Staccato dynamics, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

98 RESOURCES

Isolated dynamics repetitions: Legato, portato, staccato
Single layer long notes

01 Perf Rep dyn	**Range: G#2–F5**	

01 HPH_rep_cre5_leg-1 (2/3/4/5) · **Samples: 17** · **RAM: 1 MB**

Extracted repetition
Legato, crescendo, 1st to 5th note
1 velocity layer

01 HPH_rep_dim5_leg-1 (2/3/4/5) · **Samples: 17** · **RAM: 1 MB**

Extracted repetition
Legato, diminuendo, 1st to 5th note
1 velocity layer

02 HPH_rep_cre5_por-1 (2/3/4/5) · **Samples: 16** · **RAM: 1 MB**

Extracted repetition
Portato, crescendo, 1st to 5th note
1 velocity layer

02 HPH_rep_dim5_por-1 (2/3/4/5) · **Samples: 16** · **RAM: 1 MB**

Extracted repetition
Portato, diminuendo, 1st to 5th note
1 velocity layer

03 HPH_rep_cre9_sta-1 (2/3/4/5/6/7/8/9) · **Samples: 16** · **RAM: 1 MB**

Extracted repetition
Staccato, crescendo, 1st to 9th note
1 velocity layer

03 HPH_rep_dim9_sta-1 (2/3/4/5/6/7/8/9) · **Samples: 16** · **RAM: 1 MB**

Extracted repetition
Staccato, diminuendo, 1st to 9th note
1 velocity layer

02 Long Notes - Single Layer   Range: G#2–F5

01 HPH_sus_p   Samples: 66   RAM: 4 MB

Sustained, piano
1 velocity layer
Release samples

02 HPH_sus_mf   Samples: 66   RAM: 4 MB

Sustained, mezzoforte
1 velocity layer
Release samples

03 HPH_sus_f   Samples: 66   RAM: 4 MB

Sustained, forte
1 velocity layer
Release samples

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

Matrices

Matrix - LEVEL 1

L1 HPH Articulation Combi   Samples: 726   RAM: 45 MB

Single note articulations
Staccato, portato short, sustained with vibrato, fortepiano and sforzato with vibrato, flutter tonguing

Matrix switches: Horizontal: Keyswitches, C1–D#1   Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
V1	staccato	sus. vib.	fp vib.	flutter
V2	portato short	sus. vib.	sfz vib.	flutter

L1 HPH Perf-Legato Speed   Samples: 1006   RAM: 62 MB

Interval performances: Legato normal and fast
Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
legato	normal speed	fast

Matrix - LEVEL 2 A - Advanced

01 HPH Perf-Universal   Samples: 1946   RAM: 121 MB

Interval performances: Legato normal and fast
Marcato normal and fast
Speed controller

Matrix switches: Horizontal: Speed, 2 zones   Vertical: Modwheel, 2 zones

	H1	H2
legato	normal	fast
marcato	normal	fast

02 HPH Perf-Trill Speed   Samples: 2354   RAM: 147 MB

Multi interval performances: Legato and trills
Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
V1	legato	trills

03 HPH Short+Long notes - All   Samples: 858   RAM: 53 MB

Single notes
Staccato
Portato short and medium
Sustained with and without vibrato

Matrix switches: Horizontal: Keyswitches, C1–D#1   Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
V1	staccato	portato short	portato medium	sus. vib.
V2	%	%	%	sus. no vib.

Matrix - LEVEL 2 B - Standard

11 HPH Perf-Legato Speed

Samples: 1006   RAM: 62 MB

Interval performances: Legato normal and fast
Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
legato	normal speed	fast

12 HPH Perf-Marcato Speed

Samples: 1006   RAM: 62 MB

Interval performances: Marcato normal and fast
Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
marcato	normal speed	fast

13 HPH Dynamics

Samples: 507   RAM: 31 MB

Dynamics
Medium crescendo and diminuendo with vibrato 2, 3, and 5 sec.
Strong crescendo and diminuendo without vibrato 2, 3, and 4 sec.
Crescendo-diminuendo with vibrato 2, 3, and 5 sec.
Fortepiano, sforzato, sforzatissimo with vibrato

Matrix switches: Horizontal: Keyswitches, C1–D1   Vertical: Modwheel, 4 zones

	C1	C#1	D1
V1	med. dyn. vib. 2 sec.	med. dyn. vib. 3 sec.	med. dyn. vib. 5 sec.
V2	strong dyn. no vib. 2 sec.	strong dyn. no vib. 3 sec.	strong dyn. no vib. 4 sec.
V3	pfp vib. 2 sec.	pfp vib. 3 sec.	pfp vib. 5 sec.
V4	fp vib.	sfz vib.	sffz vib.

14 HPH Flatter

Samples: 66   RAM: 4 MB

Flutter tonguing

Matrix - LEVEL 2 C - Repetitions

21 HPH Perf-Repetitions - Combi

Samples: 746   RAM: 46 MB

Repetition performances
Legato, portato, and staccato

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
V1	legato	portato	staccato

22 HPH Perf-Repetitions - Speed   **Samples: 746   RAM: 46 MB**

Repetition performances
Legato, portato, and staccato
Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
V1	legato	portato	staccato

Matrix - LEVEL 2 E - Keyswitch Vel

31 HPH Legato - cre5   **Samples: 85   RAM: 5 MB**

Legato notes: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

32 HPH Portato - cre5   **Samples: 80   RAM: 5 MB**

Portato notes: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

33 HPH Staccato - cre9   **Samples: 144   RAM: 9 MB**

Staccato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

34 HPH Combi - cre5   **Samples: 165   RAM: 10 MB**

Legato and portato: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1   Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
legato	1st	2nd	3rd	4th	5th
portato	1st	%	%	%	%

35 HPH Legato - dim5   **Samples: 85   RAM: 5 MB**

Legato notes: Diminuendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

36 HPH Portato - dim5   **Samples: 80**   **RAM: 5 MB**

Portato notes: Diminuendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

37 HPH Staccato - dim9   **Samples: 144**   **RAM: 9 MB**

Staccato notes: Diminuendo, keyswitch velocity
Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

38 HPH Combi - dim5   **Samples: 165**   **RAM: 10 MB**

Legato and portato: Diminuendo, keyswitch velocity
Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1   Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
legato	1st	2nd	3rd	4th	5th
portato	1st	%	%	%	%

Presets

HPH VSL Preset Level 1   **Samples: 1666**   **RAM: 104 MB**

L1 HPH Perf-Legato Speed
L1 HPH Articulation Combi
Preset Keyswitches: C2–C#2

HPH VSL Preset Level 2   **Samples: 5053**   **RAM: 315 MB**

01 HPH Perf-Universal
02 HPH Perf-Trill Speed
L1 HPH Articulation Combi
21 HPH Perf-Repetitions - Combi
34 HPH Combi - cre5
Preset Keyswitches: C2–E2